



4

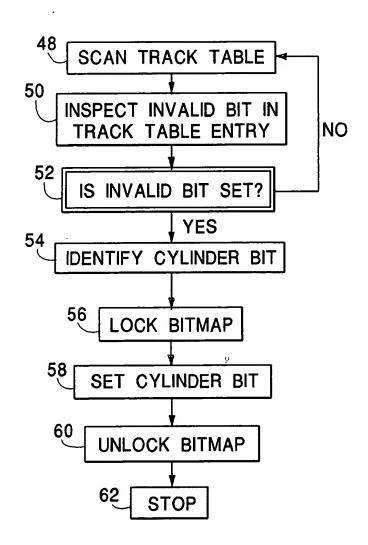


FIG. 2



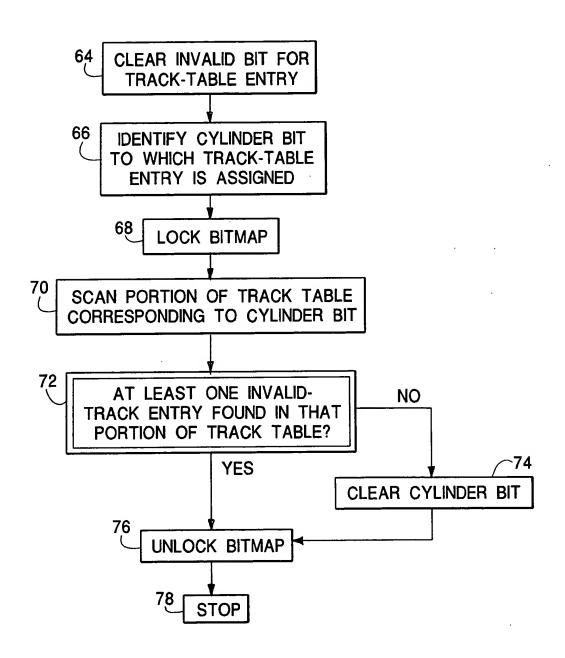


FIG. 3

B

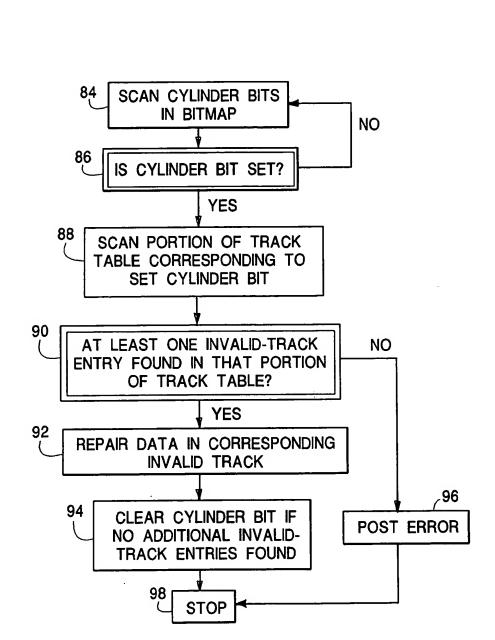


FIG. 4

OIPE OF THE PROPERTY OF THE PR

```
procedure found_invalid_track(T)
                 remainder (remainder (T/15)/8)
                                             at offset O from X
                          pointer to bitmap
                                                                        offset
                                                                of D)
                                                        11
                                                     of D)
                                                                         at
                                                               (bit B
        (T/15)/8
                                    lock bitmap
                                                                         write D
                                                                set
                                                                                 endif
      11
                                   102 —
104 —
                                                                           -801
```

<u>ල</u>. ව

unlock bitmap

FIG. 6

123 - unlock bitmap

endif

```
TEB 2 0 2003
```

```
ф
                                                                 Н
                                                                 track
                                                                  containing
                                                                  in cylinder
procedure fixed_invalid_track(T)
                remainder (remainder (r/15)/8)
                                                                                                                            offset O from X
                                          from X then
                                                                                                                    0
اا
                                                                   track T1
                         to bitmap
                                                                                                                     of D)
                                           offset 0
                                                                           is valid
                                                                                   .count=count-1
                                                     II
                                                                                                                     ф
                                                                                                                             at
                                                   of D)
                                                                                                             count=0
                                                                                                                     (bit
                                                           15
                                                                                                                             -write D
        (T/15)/8
                          pointer
                                            at
                                                                    each
                                  lock bitmap
                                                                                             endif
                                                                            if T1
                                                                                                     endfor
                                                                                                                     set
                                                                                                                                      endif
                                                                                                                                                      -trace
                                                             count
                                                    (bit
                                                                                                                                              else
                                                                     for
                                                                                         119 -
           11
                             П
                    H
                                             II
                                                                                                                                 122
                                                                                                                      121
                                                                                                                                                   124
```

procedure find\_next\_invalid\_track(T)

= remainder(T+1)/n\_tracks

X = pointer to bitmap

D=byte at offset O from X

0 = (T1/15)/8

128-

repeat

-if D≠0 then

130 —

```
do
                                                                                                                              T1=remainder((0*15*8+remainder(T1/15))/n_tracks)
                     each track T2 in cylinder containing T1
                                                                                                         remainder((T1+15)/n_tracks)
                                    then
                                   is invalid
for each bit B1 in D do
                                                return T2
             B1=1 then
                                    if T2
                                                            endif
                                                                         endfor
                                                                                     endif
                           for
              if bit
                                                                                                              11
                                                                                                 endfor
                                                                                                             - T1
                                                                                                                                                            until T1=T;
                                                                                                                                                 endif
                                                                                                                         else
                                                                                                        138
                                                                                                                                   129
```

FIG. 7

return -1